CONTENTS OF VOLUME 15

Number 1

PART I — SPECIAL ISSUE

Paramagnetic Metal Complexes as MRI Contrast Agents

Gerald L. Wolf 1 NMR contrast agents for proton imaging

M. Sovak 3 Radiographic contrast media, function and future reassessed

J. F. Desreux and **P. P. Barthélemy** 9 Highly stable lanthanide macrocyclic complexes: in search of new contrast agents for NMR imaging

Harry G. Brittain 17 Hydration states of lanthanide complexes

Robert G. Bryant 21 Nuclear magnetic relaxation dispersion

Seymour H. Koenig, Marga Spiller, Rodney D. Brown III and **Gerald L. Wolf** 23 Investigation of the biochemical state of paramagnetic ions *in vivo* using the magnetic field dependence of $1/T_1$ of tissue protons (NMRD profile): applications to contrast agents for magnetic resonance imaging

M. F. Tweedle, G. T. Gaughan, J. Hagan, P. W. Wedeking, P. Sibley, Lon J. Wilson and **Daniel W. Lee** 31 Considerations involving paramagnetic coordination compounds as useful NMR contrast agents

Val M. Runge 37 Gd–DPTA: an i.v. contrast agent for clinical MRI

R. B. Lauffer, D. R. Betteridge, S. Padmanabhan and **T. J. Brady** 45 Albumin binding of paramagnetic hepatobiliary contrast agents: enhancement of outer sphere relaxivity

R. B. Lauffer, W. L. Greif, D. D. Stark, A. C. Vincent, S. Saini, V. J. Wedeen and **T. J. Brady** 47 Iron–EHPG as an hepatobiliary MR contrast agent: initial imaging and biodistribution studies

PART II — GENERAL ISSUE SECTION

William C. Eckelman 51 Editorial

Review

Stephanie J. Brandes and **John A. Katzenellenbogen** 53 Fundamental considerations in the design of fluorine-18 labeled progestins and androgens as imaging agents for receptor-positive tumors of the breast and prostate

Carla J. Mathias, Yizhen Sun, Michael J. Welch, Mark A. Green, Janice A. Thomas, Katrina R. Wade and **Arthur E. Martell** 69 Targeting radiopharmaceuticals: comparative biodistribution studies of gallium and indium complexes of multidentate ligands

M. J. Welch, J. A. Katzenellenbogen, C. J. Mathias, J. W. Brodack, K. E. Carlson, D. Y. Chi, C. S. Dence, M. R. Kilbourn, J. S. Perlmutter, M. E. Raichle and **M. M. Ter-Pogossian** 83 *N*-(3-[^{18}F]fluoropropyl)-spiperone: the preferred ^{18}F labeled spiperone analog for positron emission tomographic studies of the dopamine receptor

B. Bubeck, W. Brandau, F. Reinbold, K. Dreikorn, M. Steinbächer, M. Eisenhut and **P. Georgi** 99 Technetium-99m labeled renal function and imaging agents: I. Clinical evaluation of ^{99m}Tc CO_2–DADS-A (^{99m}Tc *N,N'*-bis-(mercaptoacetyl)-2,3-diaminopropanoate)

B. Bubeck, W. Brandau, M. Steinbächer, F. Reinbold, K. Dreikorn, M. Eisenhut and **P. Georgi** 109 Technetium-99m labeled renal function and imaging agents: II. Clinical evaluation of ^{99m}Tc MAG_3 (^{99m}Tc mercaptoacetylglycylglycylglycine)

New Patents i New patents and published patent applications for the United States and over 30 other countries

Number 2

Kiichi Ishiwata, Yoshinao Abe, Taiju Matsuzawa and **Tatsuo Ido** — 119 Tumor uptake studies of D,L-[5-^{14}C]ornithine and D,L-2-difluoromethyl[5-^{14}C]ornithine

Kiichi Ishiwata, Tatsuo Ido, Yoshinao Abe, Taiju Matsuzawa and **Ren Iwata** — 123 Tumor uptake studies of S-adenosyl-L-[methyl-^{11}C]methionine and L-[methyl-^{11}C]methionine

Hiroaki Hoshi, Seishi Jinnouchi, Katsushi Watanabe, Takashi Ueda, Kazuo Kinoshita, Tadatoshi Yamaguchi and **Yoshihiro Tahara** — 127 Biodistribution of *N*-isopropyl-*p*-iodoamphetamine in mice

Atsushi Ando, Itsuko Ando, Tatsunosuke Hiraki and **Kinichi Hisada** — 133 Distribution of ^{103}Ru–chloride in tumor-bearing animals and the mechanism for accumulation in tumor and liver

S. M. Moerlein, K. B. Dalal, S. N. Ebbe, Y. Yano and **T. F. Budinger** — 141 Residualizing and non-residualizing analogues of low-density lipoprotein as iodine-123 radiopharmaceuticals for imaging LDL catabolism

M. R. Zalutsky, M. A. Noska, P. W. Gallagher, S. Shortkroff and **C. B. Sledge** — 151 Use of liposomes as carriers for radiation synovectomy

O. F. Nicolay, J. D. Heeley, M. K. Jeffcoat and **A. G. Jones** — 157 Autoradiographic localization of technetium-99 methylene diphosphonate in growth sites of young mice

M. K. Dewanjee, M. L. Brown, S. Chowdhury, G. Thomforde and **J. Malagelada** — 165 The search for an ^{111}In labeled agent for the solid component of gastric emptying

Lucas B. Beentjes, Wil C. Buijs, Frans H. Corstens and **John H. Duijsings** — 171 Radioactive contamination of Kiev vacationers after the Chernobyl accident. Biological half-life of Cs

William C. Cole, Adrian D. Leblanc and **Satish G. Jhingran** — 177 New ^{111}In labeling of IgG: ^{111}In–oxine mediated chelation

Frank P. Castronovo Jr and **H. William Strauss** — 181 Dual tracer resorption and apposition in a rat fracture model

H. F. Kung, J. J. Billings, Y.-Z. Guo, M. Blau and **R. Ackerhalt** — 187 Preparation and biodistribution of [^{125}I]IBZP: a potential CNS D-1 dopamine receptor imaging agent

H. F. Kung, Y.-Z. Guo, J. Billings, X. Xu, R. H. Mach, M. Blau and **R. E. Ackerhalt** — 195 Preparation and biodistribution of [^{125}I]IBZM: a potential CNS D-2 dopamine receptor imaging agent

H. F. Kung, J. J. Billings, Y.-Z. Guo and **R. H. Mach** — 203 Comparison of *in vivo* D-2 dopamine receptor binding of IBZM and NMSP in rat brain

J. Kroesbergen, A. M. P. Roozen, W. J. Gelsema and **C. L. de Ligny** — 209 ^{99m}Tc bone scanning agents—IV. Chemical characterization of ^{99m}Tc(Sn)–pyrophosphate complexes

E. Chiotellis, A. D. Varvarigou, Th. Maina and **C. I. Stassinopoulou** — 215 Comparative evaluation of ^{99m}Tc-labeled aminothiols as possible brain perfusion imaging agents

Technical Note
Marko Tarle — 225 A new PTP parameter as potential predictor of prostate cancer response to therapy

Letter to the Editors
W. K. Sidney Yu, Janeth M. Bartlett, David C. van Sickle and **Bruce H. Mock** — 229 Biodistribution of bis[β-(*N*,*N*,*N*-trimethylamino)ethyl]selenide-^{75}Se diiodide, a potential articular cartilage imaging agent

New Patents — i New patents and published patent applications for the United States and over 30 other countries

Number 3

Editorial
Steven M. Larson and **Jorge A. Carrasquillo** — 231 Advantages of radioiodine over radioindium labeled monoclonal antibodies for imaging solid tumors

Daniel F. Hayes, Michael A. Noska, Donald W. Kufe and **Michael R. Zalutsky** — 235 Effect of radioiodination on the binding of monoclonal antibody DF3 to breast carcinoma cells

Richard L. Wahl, Monica Liebert, Barry S. Wilson and **Neil A. Petry** — 243 Radiolabeled antibodies, albumin and antimony sulfide colloid: a comparison as lymphoscintigraphic agents

Ronald J. Rosenberg, John J. Sziklas and **Richard P. Spencer** — 251 Nuclear medicine studies of aging—I. Procedure utilization in the oldest old

Richard P. Spencer and **Patricia A. Barton** — 255 Nuclear medicine studies of aging—II. Femoral vessel uptake of ^{99m}Tc–diphosphonates vs age

Paul O. Zamora, Keshab D. Pant, Vallabh O. Shah, Katherine S. Sass, Keith D. Newell, He-Sheng Shao, Zvi H. Oster and **Prantika Som** — 261 Anti-colon/ovarian tumor antigen: localization of colon cancer xenografts in athymic rats

Kiichi Ishiwata, Tatsuo Ido, Yoshio Imahori, Keiichiro Yamaguchi, Hiroshi Fukuda, Masao Tada and **Taiju Matsuzawa** — 271 Accumulation of 2-deoxy-2-[^{18}F]fluoro-D-galactose in the liver by phosphate and uridylate trapping

G. A. Robinson — 277 Distribution of nanomole quantities of ^{235}U in young and adult Japanese quail and in the F_1 generation. Comparison with ^{153}Gd

Berma M. Kinsey, Roger M. Macklis, James M. Ferrara, Warren W. Layne, Steven J. Burakoff and **Amin I. Kassis** — 285 Efficient conjugation of DTPA to an IgM monoclonal antibody in ascites fluid

Philip Anderson, Andrew T. M. Vaughan and **Nicholas R. Varley** — 293 Antibodies labeled with ^{199}Au: potential of ^{199}Au for radioimmunotherapy

William G. Cance, Fyllis L. Otsuka, William G. Dilley, Randy W. Scott, Joseph M. Davie, Michael J. Welch and **Samuel A. Wells Jr** — 299 A potential new radiopharmaceutical for parathyroid imaging: radiolabeled parathyroid-specific monoclonal antibody—I. Evaluation of ^{125}I-labeled antibody in a nude mouse model system

Fyllis L. Otsuka, William G. Cance, William G. Dilley, Randy W. Scott, Joseph M. Davie, Samuel A. Wells Jr and **Michael J. Welch** — 305 A potential new radiopharmaceutical for parathyroid imaging: radiolabeled parathyroid-specific monoclonal antibody—II. Comparison of ^{125}I- and ^{111}In-labeled antibodies

R. Chisin, A. Markitziu, S. Hoffer, J. Shani and **H. Atlan** — 313 The clinical value of quantitative dynamic scintigraphy in salivary gland disorders

D. J. Maddalena, G. M. Snowdon and **J. G. Wilson** — 319 Structure–distribution studies on some ^{99m}Tc-*o*-hydroxybenzyliminodiacetic acid complexes

M. V. Merrick, J. E. T. Corrie, A. M. Millar and **R. A. Hawkins** — 327 A reevaluation of an agent proposed for imaging oestrogen receptors: 17α-[^{125}I]iodovinyl-11β-methoxyoestradiol-3-methyl ether ([^{125}I]VMEME)

Anna-Liisa Kairento, Elijahu Livni, Sakari Mattila, Ari Harjula, Leena Porkka, Lena Lindroth and **David R. Elmaleh** — 333 Comparative evaluation of [^{123}I]14-*p*-iodophenyl-beta-methyltetradecanoic acid and thallium-201 in the detection of infarcted areas in the dog heart using SPECT

Technical Note
Wim Th. Goedemans and **Max R. Hardeman** — 339 Clumping of labeled leukocyte suspension. A simple measure for avoiding it

New Patents — i New patents and published patent applications for the United States and over 30 other countries

Number 4

William C. Eckelman — 343 Editorial

Review
Siya Ram and **Richard Lee Ehrenkaufer** — 345 Synthesis of ^{11}C-radiopharmaceuticals using direct fixation of [^{11}C]carbon dioxide and [^{11}C]carbon monoxide

N. Martin, F. Guiraud-Vitaux, N. Colas-Linhart, B. Bok and **H. Nahum** — 357 β-Endorphin levels after intrathecal infusion of iodinated contrast media

Ivor L. Preiss and **James F. Keenan** — 361 Time dependent zinc distribution in the development of the BW7756 murine hepatoma

Kiichi Ishiwata, Kazuhiko Yanai, Tatsuo Ido, Yuko Miura-Kanno and **Koichiro Kawashima** — 365 Synthesis and biodistribution of [^{11}C]fludiazepam for imaging benzodiazepine receptors

J. Vácha, J. Mikeska, V. Znojil, M. Pospíšil, Jiřina Holá, A. Kozubík and **B. Hošek** — 373 The fall in the incorporation of labelled iron into the bone marrow during enhanced erythropoiesis: this paradox explained by changes in ferrokinetics and cytokinetics using the model of mice affected by thyroid hormones

S. L. Brown, J. W. Hunt and **R. P. Hill** — 381 A comparison of the rate of clearance of xenon (^{133}Xe) and pertechnetate ion ($^{99m}TcO_4^-$) in murine tumors and normal leg muscles

James R. Ballinger, Judith Pygas, Bonny Gerson and **Karen Y. Guienchyn** — 391 Stabilization of stannous pyrophosphate kits with gentisic acid

P. Wedeking and **M. Tweedle** — 395 Comparison of the biodistribution of ^{153}Gd-labeled $Gd(DTPA)^{2-}$, $Gd(DOTA)^-$, and $Gd(acetate)_n$ in mice

Kathryn E. Carlson, Stephanie J. Brandes, Martin G. Pomper and **John A. Katzenellenbogen** — 403 Uptake of three [^{3}H]progestins by target tissues *in vivo*: implications for the design of diagnostic imaging agents

Mridula Misra, Himadri S. Sarkar, Mita Chatterjee and **Somenath Banerjee** — 409 Preparation and evaluation of technetium-99m labeled cardiac glycoside derivatives as potential myocardial imaging agent

Bijay Mukherji, Oskar Arnbjarnarson, Larry A. Spitznagle, Robert I. Kalish, James Hoffman, M. T. Ergin and **Richard P. Spencer** — 419 Imaging pattern of previously *in vitro* sensitized and Interleukin-2 expanded autologous lymphocytes in human cancer

Shiv M. Gupta, Yogesh Patel, Fazle Hosain, Thomas Davies, Mingzer Tung, Thomas Halpin, Richard P. Spencer and **Nilo E. Herrera** — 429 Nuclear medicine studies of aging—III. Radial bone mineral content by single and dual photon absorptiometry

M. R. Zalutsky, R. C. Knapp and **R. C. Bast Jr** — 431 Influence of circulating antigen on blood pool activity of a radioiodinated monoclonal antibody

F. H. Valone, R. B. Stricker, P. O. Zamora, V. O. Shah and **P. L. Mann** — 439 Technetium-99m labeled 50H.19 antibody fragments: interaction of the antibody with platelets

John Baldas and **John Bonnyman** — 451 ^{99m}Tc-nitrido radiopharmaceuticals based on nitrogen heterocyclic ligands containing a thiol group

M. T. El-Kolaly and **N. Z. Misak** — 459 A ^{99m}Tc generator based on the adsorption of [^{99}Mo]molybdophosphate on hydrous manganese dioxide

B. Maziere, C. Crouzel, M. Venet, O. Stulzaft, G. Sanz, M. Ottaviani, C. Sejourne, O. Pascal and **J. C. Bisserbe** — 463 Synthesis, affinity and specificity of ^{18}F–setoperone, a potential ligand for *in-vivo* imaging of cortical serotonin receptors

R. Chisin, D. Gazit, M. Ulmansky, A. Laron, H. Atlan and **J. Sela** — 469 ^{99m}Tc–MDP uptake and histological changes during rat bone marrow regeneration

Book Review — 477

Announcements — 478

Number 5

J. Kroesbergen, A. M. P. Roozen, M. R. Wortelboer, W. J. Gelsema and **C. L. de Ligny** — 479 ^{99m}Tc bone scanning agents—VI. Gel chromatographic analysis of the plasma protein binding of ^{99m}Tc(Sn)pyrophosphate, ^{99m}Tc(Sn)MDP and ^{99m}Tc(Sn)HMDP

A. A. Keeling and **A. T. M. Vaughan** — 489 Factors influencing the adsorption of lutetium-177 on hydroxyapatite

Tian-ze Zhou, Walter W. Hirth, William R. Heineman and **Edward Deutsch** — 493 Quantitative HPLC determination of [^{99m}Tc]pertechnetate in radiopharmaceuticals and biological samples—I. Technique development

T. J. Tewson, M. S. Berridge, L. Bolomey and **L. L. Gould** — 499 Routine production of reactive fluorine-18 fluoride salts from an oxygen-18 water target

Z. M. Wong, F. W. Teare, B. M. Bowen, S-K. Liao, C. S. Kwok and **I. Boxen** — 505 Comparison of the Iodogen and the microelectrochemical techniques for the radioiodination of monoclonal antibody 140.240

Sushital Chowdhury, Manuel L. Brown, Mrinal K. Dewanjee, Lee A. Forstrom and **Jerry A. Katzmann** — 511 Labeled polymorphonuclear leukocytes: a comparison of methodology

M. L. Thakur, D. B. Leeper, R. Rowley and **C. H. Park** — 517 Radioiodinated rhodamine-123: preparation and preliminary evaluation as an agent for tumor scintigraphy

N. D. Karatzas, K. I. Kallaras and **A. V. Heal** — 525 Red blood cell volume (RBCV) and blood volume (BV) in male albino (NZW) rabbits with ^{99m}Tc

Arlene P. Grimmond, Fazle Hosain and **Richard P. Spencer** — 529 Nuclear medicine studies of aging—IV. Femoral proximal to distal radionuclide uptake gradient

Theodore R. Simon and **Richard P. Spencer** — 531 Nuclear medicine studies of aging—V. Uptake of ^{67}Ga and ^{111}In in the femoral vessels

M. Chattopadhyay, K. N. Jalan, A. K. Pal and **S. N. Banerjee** — 535 ^{99m}Tc–cystine: a faster excreting ^{99m}Tc–glucoheptanoate analogue

Nada Maric, S. Ming Chan, Paul B. Hoffer and **Paul Duray** — 543 Radiolabeled porphyrin vs gallium-67 citrate for the detection of human melanoma in athymic mice

Alessandro Brocchi and **Mariasilvia Tommasi** — 553 Development of a solid phase RIA for human plasma somatostatin

Seham A. Ali, Janet F. Eary, Stephen D. Warren, Christopher C. Badger and **Kenneth A. Krohn** — 557 Synthesis and radioiodination of tyramine cellobiose for labeling monoclonal antibodies

Linda C. Knight, Alan H. Maurer, Ibrahim A. Ammar, Jeffry A. Siegel, Robert S. Fisher and **Leon S. Malmud** — 563 Use of ^{111}In-labeled alginate to study the pH dependence of alginic acid anti-esophageal reflux barrier

D. N. Pahuja and **O. P. D. Noronha** — 573 Radiopharmacological profiles of tracers under pathophysiological conditions. ^{99m}Tc–methylene diphosphonate uptake by bone in altered thyroid status

Roland d'Argy, Robert Paul, Lars Frankenberg, Carl-Göran Stålnacke, Hans Lundqvist, Lauri Kangas, Christer Halldin, Kjell Någren, Dirk Roeda, Merja Haaparanta, Olof Solin and **Bengt Långström** — 577 Comparative double-tracer whole-body autoradiography: uptake of ^{11}C-, ^{18}F- and ^{3}H-labeled compounds in rat tumors

Technical Notes

B. Raghunath, S. Somasundaram and **P. S. Soni** — 587 Density and radioactivity distribution of respirable range human serum albumin aerosol

L. J. Joseph, K. B. Desai, M. N. Mehta and **R. Mathiyarasu** — 589 Measurement of specific activity of radiolabelled antigens by a simple radioimmunoassay technique

R. J. E. Grouls, E. W. Ackerman and **G. op de Weegh** — 591 ^{99m}Tc(Sn)–sucralfate; development of an instant labelling kit

New Patents — i New patents and published patent applications for the United States and over 30 other countries

Number 6

Oladipo A. Oredipe, Rolf F. Barth, Steven E. Tuttle, Dianne M. Adams, Iveta Sautins, Donna M. Bucci, Cathy M. Mojzisik, George H. Hinkle, Scott Jewell, Zenon Steplewski, Marlin O. Thurston and **Edward W. Martin Jr** — 595 Limits of sensitivity for the radioimmunodetection of colon cancer by means of a hand held gamma probe

Kazuhiko Yanai, Robert F. Dannals, Alan A. Wilson, Hayden T. Ravert, Ursula Scheffel, Shuji Tanada and **Henry N. Wagner Jr** — 605 (*N*-methyl-[^{11}C])pyrilamine, a radiotracer for histamine H-1 receptors: radiochemical synthesis and biodistribution study in mice

Richard L. Wahl, Cynthia R. Piko, Barbara A. Beers, Onelio Geatti, Jon Johnson and **Phil Sherman** — 611 Systemic perfusion: a method for enhancing relative tumor uptake of radiolabeled monoclonal antibodies

L. Kuhlmann and **A. Steinsträsser** — 617 Effect of DTPA to antibody ratio on chemical, immunological and biological properties of the ^{111}In-labelled F(ab′)$_2$ fragment of the monoclonal antibody 431/31

Shiv M. Gupta, Mingzer Tung, Richard P. Spencer, Susan Maturlo, Thomas Davies and **Nilo E. Herrera** — 629 Nuclear medicine studies of aging—VI. Dual photon absorptiometry and bone scans in "at risk" women with back pain

David E. Mellenberg, Roy S. Tilbury and **Kenneth R. Hogstrom** — 631 Radionuclide production and partial radiochemical characterization following fast neutron irradiation of mouse spleens

Kenji Hashimoto, Osamu Inoue, Tsuyoshi Goromaru and **Toshiro Yamasaki** — 637 Changes in *in vivo* binding of ^{3}ΠH–Ro 15-1788 in mouse brain by reserpine

Norio Sakuragawa, Akira Matsui, Tetsuo Matsuzaka, Yoshiyasu Kono, Tatsuo Ido, Kiichi Ishiwata and **Koichiro Kawashima** — 645 Enhanced glucose metabolism and impaired placental function in hypoxic pregnant rats

F. C. Hunt — 651 Chelator-induced enhancement of ^{67}Ga tumour imaging: comparison of desferrioxamine with *N,N′*-ethylene-bis[2-hydroxy-5-carboxyphenylglycine]

F. C. Hunt — 659 Potential radiopharmaceuticals for the diagnosis of biliary atresia and neonatal hepatitis: EHPG and HBED chelates of ^{67}Ga and ^{111}In

Arturo Brunetti, Ronald G. Blasberg, Ronald D. Finn and **Steven M. Larson** — 665 Gallium–transferrin as a macromolecular tracer of vascular permeability

Carol S. Marcus, John H. Kuperus, John A. Butler, Philip L. henneman, Robert D. Salk, Bi-Ying Chen, Michael R. P. Vivian and **Laurie M. Yamanaka** — 673 Phagocytic labeling of leukocytes with ^{99m}Tc–albumin colloid for nuclear imaging

Theodore R. Simon, Sharon Matthiesen, Rocky Rogers, Steven Kirby, Jeffrey G. Triebel and **J. Edward Dowdey** — 683 An inexpensive approach to improving data derived from single photon emission computed tomography

Anil Babbar, Pushpa Mishra and **U. P. S. Chauhan** — 689 A novel method for labelling of leukocytes with technetium-99m and its comparative evaluation for abscess scintigraphy

K. R. Ambrose, B. A. Owen, A. P. Vallahan, M. M. Goodman and **F. F. Knapp Jr** — 695 Effects of fasting on the myocardial subcellular distribution and lipid distribution of terminal *p*-iodophenyl-substituted fatty acids in rats

C. J. Turner, T. R. Sykes, B. M. Longenecker and **A. A. Noujaim** — 701 Comparative radiolabeling and distribution of a tumour-directed monoclonal antibody

Lee C. Washburn, Yu-Chen C. Lee, Tan Tan Hwa Sun, Bill Byrd, James E. Crook, Michael G. Stabin and Zenon G. Stabin and **Zenon Steplewski** — 707 Preclinical assessment of ^{90}Y-labeled monoclonal antibody CO17-1A, a potential agent for radioimmunotherapy of colorectal carcinoma

Marko Tarle — 713 Prolactin binding components in prostatic cancer tissue specimens obtained by TURP

Technical Notes

A. Michael Zimmer, Joanne M. Kazikiewicz, Stewart M. Spies and **Steven T. Rosen** — 717 Rapid miniaturized chromatography for ^{111}In labeled monoclonal antibodies: comparison to size exclusion high performance liquid chromatography

Munawwar Sajjad, Richard M. Lambrecht and **Soliman A. Bakr** — 721 Chromatographic evaluation of the reductant-free iodine-123

D. Guilloteau, F. Huguet, S. Chalon, J.-L. Baulieu, P. Gerard, G. Narcisse, L. Pourcelot and **J-.C. Besnard** 723 MIBG and catecholamine storage in the brain: an *in-vitro* study

Corrigendum 725

New Patents i New patents and published patent applications for the United States and over 30 other countries